

Attorney Docket No.: DEX-0273
Inventors: Macina et al.
Serial No.: 10/001,857
Filing Date: November 20, 2001
Page 20

This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of the claims:

Claim 1 (currently amended): An isolated nucleic acid molecule comprising

(a) a nucleic acid molecule comprising a nucleic acid sequence that encodes an amino acid sequence of SEQ ID NO: ~~116~~ through ~~208~~ 145;

(b) a nucleic acid molecule comprising a nucleic acid sequence of SEQ ID NO: ~~1 through 115~~ 41 or 42;

(c) a nucleic acid molecule that ~~selectively~~ hybridizes under stringent hybridization conditions of 50% formamide/6X SSC at 42°C for at least 10 hours or 6X SSC at 68°C without formamide for at least 10 hours to the nucleic acid molecule of (a) or (b);
or

(d) a nucleic acid molecule having at least ~~60~~90% sequence identity to the nucleic acid molecule of (a) or (b).

Claim 2 (original): The nucleic acid molecule according to claim 1, wherein the nucleic acid molecule is a cDNA.

Attorney Docket No.: DEX-0273
Inventors: Macina et al.
Serial No.: 10/001,857
Filing Date: November 20, 2001
Page 21

Claim 3 (original): The nucleic acid molecule according to claim 1, wherein the nucleic acid molecule is genomic DNA.

Claim 4 (original): The nucleic acid molecule according to claim 1, wherein the nucleic acid molecule is a mammalian nucleic acid molecule.

Claim 5 (original): The nucleic acid molecule according to claim 4, wherein the nucleic acid molecule is a human nucleic acid molecule.

Claim 6 (withdrawn): A method for determining the presence of a lung specific nucleic acid (LSNA) in a sample, comprising the steps of:

(a) contacting the sample with the nucleic acid molecule according to claim 1 under conditions in which the nucleic acid molecule will selectively hybridize to a lung specific nucleic acid; and

(b) detecting hybridization of the nucleic acid molecule to a LSNA in the sample, wherein the detection of the hybridization indicates the presence of a LSNA in the sample.

Attorney Docket No.: DEX-0273
Inventors: Macina et al.
Serial No.: 10/001,857
Filing Date: November 20, 2001
Page 22

Claim 7 (original): A vector comprising the nucleic acid molecule of claim 1.

Claim 8 (original): A host cell comprising the vector according to claim 7.

Claim 9 (original): A method for producing a polypeptide encoded by the nucleic acid molecule according to claim 1, comprising the steps of (a) providing a host cell comprising the nucleic acid molecule operably linked to one or more expression control sequences, and (b) incubating the host cell under conditions in which the polypeptide is produced.

Claims 10-13 (canceled)

Claim 14 (currently amended): A method for diagnosing and monitoring the presence and metastases of lung cancer in a patient, comprising the steps of:

(a) determining an amount of the nucleic acid molecule of claim 1 or a polypeptide ~~of claim 11~~ encoded thereby in a sample of a patient; and

(b) comparing the amount of the determined nucleic acid molecule

Attorney Docket No.: DEX-0273
Inventors: Macina et al.
Serial No.: 10/001,857
Filing Date: November 20, 2001
Page 23

or the polypeptide encoded thereby in the sample of the patient to the amount of the lung specific marker in a normal control; wherein a difference in the amount of the nucleic acid molecule or the polypeptide encoded thereby in the sample compared to the amount of the nucleic acid molecule or the polypeptide encoded thereby in the normal control is associated with the presence of lung cancer.

Claim 15 (currently amended): A kit for detecting a risk of cancer or presence of cancer in a patient, said kit comprising a means for determining the presence the nucleic acid molecule of claim 1 ~~or a polypeptide of claim 11~~ in a sample of a patient.

Claim 16-17 (canceled)

Claim 18 (new): The isolated nucleic acid molecule of claim 1 wherein the nucleic acid molecule comprises a nucleic acid sequence that encodes an amino acid sequence of SEQ ID NO:145.

Claim 19 (new): The isolated nucleic acid molecule of claim 1 wherein the nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 41.

Attorney Docket No.: DEX-0273
Inventors: Macina et al.
Serial No.: 10/001,857
Filing Date: November 20, 2001
Page 24

Claim 20 (new): The isolated nucleic acid molecule of claim 1 wherein the nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 42.

Claim 21 (new): The isolated nucleic acid molecule of claim 1 wherein the nucleic acid molecule has at least 95% sequence identity to the nucleic acid molecule of (a) or (b).

Claim 22 (new): The isolated nucleic acid molecule of claim 1 wherein the nucleic acid molecule has at least 98% sequence identity to the nucleic acid molecule of (a) or (b).

Claim 23 (new): The isolated nucleic acid molecule of claim 1 wherein the nucleic acid molecule has at least 99% sequence identity to the nucleic acid molecule of (a) or (b).